



IN THE CLAIMS

The following is a complete listing of the claims in this application, reflects all changes currently being made to the claims, and replaces all earlier versions and all earlier listings of the claims:

1. (Currently Amended) [[The]] A transaction device comprising:
 - a. at least one of a translucent and transparent device layer [[surface]];
 - b. a machine recognizable compound substantially covering said device layer associated with a portion of said surface; and
 - c. a transponder system positioned within in communication with said device layer [[surface]], said transponder system operable to receive a first RF interrogation signal, authenticate said first RF interrogation signal, and transmit a transponder system account data, said transponder system comprising:
 - i. a first transponder responsive to said RF interrogation signal;
 - ii. a transponder system authentication circuit in communication with said first transponder; and
 - iii. a transponder system database in communication with said first transponder.

2. (Currently Amended) The transaction device of claim 1, wherein said machine recognizable compound is extrusion coated to ~~at least one of said translucent and transparent device layer~~ [[surface]].

3. (Currently Amended) The transaction device of claim 1, wherein ~~at least one of said device layer translucent and transparent layers~~ comprises a plurality of perforations.

4. (Currently Amended) The transaction device of claim 3, wherein said plurality of perforations forms a pattern in ~~at least one of said device layer translucent and transparent layers~~.

5. (Currently Amended) The transaction device of claim 3, further comprising a subassembly of film layers, wherein ~~said subassembly comprises~~ said plurality of perforations [[therethrough]] extend through said subassembly of film layers.

6. (Currently Amended) The transaction device of claim 1, comprising:

a. a second transponder system positioned within in communication with said device layer [[surface]], said second transponder system operable to receive a second RF interrogation signal, authenticate the [[said]] second RF interrogation signal, and transmit the [[said]] transponder system account data, said second transponder system comprising:

i. a second transponder responsive to said second RF interrogation signal;

ii. a second transponder system authentication circuit in communication with at least one of said first transponder and said second transponder; and

iii. a second transponder system database in communication with said second transponder system authentication circuit.

7. (Currently Amended) The transaction device of claim 1, wherein said device layer comprises [[comprising]] a plurality of layers, in which [[wherein]] a first layer comprises a first polymer and a second layer comprises a second polymer wherein said plurality of layers is at least one of a transparent and translucent layer.

8. (Previously Presented) The transaction device of claim 1, wherein said machine recognizable compound includes at least one of a chemical, solution, dye, layered material, pigment, encapsulated pigment, coating, film, thread, plastic, ink, concentrate, thermoplastic matrix, thermoset matrix, fiber, paper, and planchette.

9. (Previously Presented) The transaction device of claim 1, wherein said machine recognizable compound includes at least one of invisible, visible and colored compounds.

10. (Previously Presented) The transaction device of claim 1, wherein said machine recognizable compound includes an infrared ink.

11. (Previously Presented) The transaction device of claim 1, wherein said machine recognizable compound includes an infrared ink comprising in the range of about 0.001 to 40.0 wt.(%) of an infrared activated material.

12. (Previously Presented) The transaction device of claim 1, wherein said machine recognizable compound includes an optically recognizable compound.

13. (Previously Presented) The transaction device of claim 1, wherein said machine recognizable compound is configured to at least one of block, diffuse, reflect, refract and absorb infrared light.

14. (Currently Amended) The transaction device of claim 1, wherein said machine recognizable compound includes at least one of a binder, UV absorber, reflector, antioxidant, optical brightener, color shifter, chemical configured to improve processing, and chemical configured to adjust ~~rheological~~ rheological properties.

15. (Currently Amended) The transaction device of claim 1, wherein said machine recognizable compound includes: about 2% by weight of a near infrared dye ~~Epolin VII-164 dye, and about 98% by weight of a solvent evaporative screen ink. Tech~~ ~~Mark Mixing Clear, about 980.0g of Tech Mark solvent evaporative screen ink, about~~ ~~20.0g of Epolight VII-164 dye.~~

16. (Currently Amended) The transaction device of claim 1, wherein said machine recognizable compound includes: about 1.5% by weight of a near infrared monovalent amminium dye ~~15.0 lbs of Epolin VII-164 dye, about 96.5% by weight of a solvent evaporative screen ink~~ ~~965 lbs of Tech Mark Mixing Clear, and about 2% by weight of a near infrared nickel dithiolene dye~~ ~~20.0 lbs of Epolight VI-30 dye.~~

17. (Currently Amended) The transaction device of claim 1, wherein said machine recognizable compound includes: about 0.04% by weight of a near infrared

dye, about 0.96% by weight 30.0 grams of Epelight VII 172 dye, 700.0 grams of polyvinylchloride plastic, and about 99% by weight 99.0 lbs of PVC.

18. (Previously Presented) The transaction device of claim 1, wherein said machine recognizable compound includes PET plastic.

19. (Currently Amended) The transaction device of claim 1, wherein said machine recognizable compound includes: about 80% by weight of a solvent evaporative screen ink 0.80 grams Tech Mark mixing clear, about 7% by weight of 0.07 grams VMCA resin, about 10% by weight of 0.10 grams cyclohexanone, and about 3% by weight of a near infrared dye. 0.03 grams ~~Epolight VII 164~~.

20. (Currently Amended) The transaction device of claim 1, wherein said machine recognizable compound includes: about 55% by weight of 0.55 grams vinyl VMCA resin, about 35% by weight of 0.35 grams EEP solvent, about 5% by weight of 0.05 grams cyclohexanone, about 3% by weight of a near infrared monovalent amminium dye 0.03 grams ~~Epolight VII 164~~, and 2% by weight of a near infrared nickel dithiolene dye. 0.02 grams ~~Epolight VI 30~~.

21. (Currently Amended) The transaction device of claim 1, wherein said machine recognizable compound includes: about 90% by weight of a solvent evaporative screen ink 0.90 grams TM mixing clear, about 3% by weight of 0.03 grams cyclohexanone, about 3% by weight of a near infrared monovalent amminium dye 0.03 grams ~~Epolight VII 164~~, about 2% by weight of a near infrared nickel dithiolene dye 0.02

grams Epelight VI-30, and about 2% by weight of a phthalocyanine dye, 0.02 grams Epelight 6084.

22. (Previously Presented) The transaction device of claim 1, comprising a second transponder responsive to a second RF interrogation signal, said first RF interrogation signal different from said second RF interrogation signal.

23. (Previously Presented) The transaction device of claim 6, wherein said transponder system includes a transponder system protocol/sequence controller in communication with at least one of said first transponder, said second transponder, said transponder system authentication circuit, and said transponder system database, said transponder system protocol/sequence controller configured to control the order of operation of said first transponder, said second transponder, said transponder system authentication circuit, and said transponder system database.

24. (Previously Presented) The transaction device of claim 23, wherein said transponder system comprises at least one of a first transponder system antenna and a second transponder system antenna, said first transponder system antenna configured to receive said first RF interrogation signal, and said second transponder system antenna configured to receive said second RF interrogation signal.

25. (Previously Presented) The transaction device of claim 23, wherein said transponder system protocol/sequence controller is responsive to at least one of said first RF interrogation signal and said second RF interrogation signal, said transponder protocol/sequence controller controlling the sequence of operation at least one of said

transponder system authentication circuit, and said transponder system database, in response to at least one of said first RF interrogation signal and said second RF interrogation signal.

26. (Previously Presented) The transaction device of claim 25, wherein said transponder system protocol/sequence controller is configured to activate said transponder system authentication circuit in response to said first RF interrogation signal, said transponder system authenticating circuit configured to provide an encrypted RF interrogation signal, said transponder system authentication circuit configured to provide said encrypted RF interrogation signal to said first transponder for providing to a RFID reader.

27. (Previously Presented) The transaction device of claim 1, wherein said transponder system database is operable to store at least one of a transponder system identification data, a RFID reader decryption security key, and a transponder system account data.

28. (Previously Presented) The transaction device of claim 27, wherein said transponder system database is configured to provide said RFID reader decryption security key to said transponder system authentication circuit in response to a encrypted authentication code.

29. (Previously Presented) The transaction device of claim 1, wherein said transponder system includes an internal power source.

30. (Previously Presented) The transaction device of claim 29, wherein said transponder system includes a biometric circuit, said biometric circuit in communication with said internal power source.

31. (Previously Presented) The transaction device of claim 30, wherein said biometric circuit is configured to provide a biometric data verification response, said biometric circuit configured to provide said biometric data verification response to at least one of said RFID reader and a merchant system, wherein said biometric data verification response is an identification verification data.

32. (Currently Amended) [[The]] A transaction device comprising:

- a. at least one of a translucent and transparent device layer [[surface]];
 - b. a machine recognizable compound substantially covering said device layer associated with a portion of said surface;
 - c. at least one of a holographic foil, an integrated circuit chip, a magnetic stripe, an opacity gradient, embossed characters, signature field, and text and logo; and,
 - d. a transponder system including [[a]] RFID circuitry operable to receive a first RF interrogation signal, and to authenticate said first RF interrogation signal, said transponder system comprising a first transponder responsive to said first RF interrogation signal.

33. (Previously Presented) The transaction device of claim 32, wherein said machine recognizable compound includes at least one of a coating, film, thread, plastic, ink, fiber, paper, and planchette.

34. (Currently Amended) [[The]] A transaction device comprising:

- a. at least one of an opaque, translucent and transparent device layer [[surface]];
 - b. a machine recognizable compound associated with substantially covering said device layer associated with a portion of said surface;
 - c. a holographic foil;
 - d. an integrated circuit chip;
 - e. [[a]] RFID circuitry; and
 - f. a magnetic stripe.

35. (Currently Amended) [[The]] A process for fabricating a transparent transaction device comprising a plurality of layers of PET GS, the method comprising:
[[including]]

placing infrared blocking [[IR]] film between two layers of PET GS;
and
incorporating RFID circuitry between the two layers,
wherein the infrared blocking film is substantially coextensive with
the two layers.

36. (Previously Presented) The process of claim 35 comprising chemical deposition by at least one of vacuum coating, solar coating and Magnetron

sputtering, providing a laminate, and providing a core layer and adhering the layers of the device with adhesive.

37. (Currently Amended) [[The]] A transaction device at least a portion of which is substantially transmissive to visible light, comprising:

- a. at least one of a translucent and transparent device layer [[surface]];
 - b. a machine recognizable compound substantially covering ~~at least a portion of~~ said device layer [[surface]], wherein said machine recognizable compound is substantially transmissive to visible light; and
 - c. [[a]] RFID circuitry positioned within ~~in communication~~ with said device layer [[surface]], said RFID circuitry including a transponder responsive to a first interrogation signal.

38. (Currently Amended) [[The]] A transaction device at least a portion of which is substantially transmissive to visible light, comprising:

- a. at least one of a translucent and transparent device layer [[surface]];
 - b. at least one of a holographic foil, an integrated circuit chip, a magnetic stripe, an opacity gradient, embossed characters, signature field, text and logo;
 - c. a machine recognizable compound substantially covering ~~at least a portion of~~ said device layer [[surface]], wherein said machine recognizable compound is substantially transmissive to visible light; and

d. [[a]] RFID circuitry positioned within in communication with said device layer [[surface]], said RFID circuitry including a transponder responsive to a first interrogation signal.

39. (Currently Amended) [[The]] A process for fabricating a transparent transaction device at least a portion of which is substantially transmissive to visible light, comprising:

a. placing machine recognizable compound between at least two layers of PET IR forming a subassembly, wherein the machine recognizable compound substantially covers the layers; and

b. placing [[a]] RFID circuitry between at least one layer of the PET and the machine recognizable compound.

40. (Currently Amended) [[The]] A process for fabricating a transparent transaction device at least a portion of which is substantially transmissive to visible light, comprising:

a. placing machine recognizable compound between at least two layers of PET IR forming a subassembly, wherein the machine recognizable compound substantially covers the layers;

b. placing the subassembly between at least two layers of polyvinylchloride; and

c. placing [[a]] RFID circuitry between at least one layer of the polyvinylchloride and at least one layer of the subassembly.

41. (Previously Presented) The transaction device of claim 2, wherein said transponder system comprises a transponder system antenna operable to receive said RF interrogation signal.

42. (Currently Amended) The transaction device of claim 41, wherein said transponder system antenna is disposed between ~~at least one of~~ said machine recognizable compound and ~~at least one of said device transparent layer and transparent~~ layer.

43. (Currently Amended) The transaction device of claim 5, wherein said subassembly includes said transponder system, said transponder system comprising a transponder system antenna disposed between at least one of said machine recognizable compound and ~~at least one of said device transparent layer and transparent~~ layer, said second layer and ~~at least one of said device transparent layer and transparent~~ layer, and said machine recognizable compound and said second layer.

44. (Previously Presented) The transaction device of claim 7, wherein said transponder system comprises a transponder system antenna operable to receive said interrogation signal.

45. (Previously Presented) The transaction device of claim 44, wherein said transponder system antenna is disposed between at least two of said plurality of layers.

46. (Previously Presented) The transaction device of claim 24, wherein at least one of said first transponder system antenna and said second transponder system

antenna is disposed between one of said machine recognizable compound and ~~at least one~~
~~of said device transparent layer and transparent layer.~~